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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/774,427	01/30/2001	Shunpei Yamazaki	07977/115003/US3251D1D1	3966
	590 04/14/2003			
FISH & RICHARDSON, PC			EXAMINER	
SUITE 500 SAN DIEGO, (A VILLAGE DRIVE		COLEMAN, WILLIAM D	
SAN DIEGO, C	JA 92122		ART UNIT	PAPER NUMBER
		•	2823	
			DATE MAILED: 04/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



		14. 1	D
	Application No.	Applicant(s)	
•	09/774,427	YAMAZAKI ET AL.	
Office Action Summary	Examiner	Art Unit	\dashv
	W. David Coleman	2823	
The MAILING DATE of this communication a	appears on the cover sheet w	th the correspondence address	
Period for Reply	N V IO CET TO EVEIDE AM	ONTHIO) FROM	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated to the period for the period for reply will, by stated the period for the period for the material patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thin od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
1)⊠ Responsive to communication(s) filed on 0	6 February 2003		
	This action is non-final.		
3) Since this application is in condition for allo		ters prosecution as to the merits is	
closed in accordance with the practice undensposition of Claims			
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			}
6)⊠ Claim(s) <u>1-11</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	ner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ ac	cepted or b) objected to by t	ne Examiner.	
Applicant may not request that any objection to			
11) The proposed drawing correction filed on		isapproved by the Examiner.	
If approved, corrected drawings are required in	• •		
12) The oath or declaration is objected to by the	Examiner.		ļ
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
 3. Copies of the certified copies of the properties o	Bureau (PCT Rule 17.2(a)).	_	
14) Acknowledgment is made of a claim for dome	·		
a) The translation of the foreign language	•		
15) Acknowledgment is made of a claim for dome	· ·		
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 6, 2003 has been entered.

Claim Rejections - 35 USC § 102

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 1. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 2. Claims 8, 9 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Wakai et al., U.S. Patent 5,821,137.
- 3. Pertaining to claims 8 and 9, <u>Wakai</u> discloses a semiconductor device as claimed. See **FIG. 4E**, where <u>Wakai</u> teaches a semiconductor device having at least one thin film transistor formed over a substrate, said thin film transistor comprising:
- a semiconductor layer **66** having source and drain region (not numbered) and a channel forming region therebetween; and

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a gate electrode **62** adjacent to said channel forming region with a gate insulating layer **64** interposed therebetween,

wherein said channel forming region directly contacts with source and drain regions, and also in contact with the channel region,

wherein a pair of portions containing n-type and p-type impurities are formed adjacent to said source and drain regions respectively,

wherein said pair of portions have the same conductivity type as said source and drain regions, and

wherein an electrode 79 is connected to at least one of said pair of portions.

4. Pertaining to claim 10, <u>Wakai</u> discloses wherein said channel forming region contains an impurity imparting one conductivity (please note that the LDD is around the channel forming region).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wakai et al., U.S. Patent 5,821,137 as applied to claims 8, 9 and 10 above, and further in view of Katayama et al., U.S. Patent 4,613,382.
- 7. <u>Wakai</u> discloses a semiconductor device substantially as claimed as discussed above. However, <u>Wakai</u> fails to disclose wherein the semiconductor film contains an impurity

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containing hydrogen and halogen. <u>Katayama</u> teaches wherein the semiconductor film contains hydrogen and halogen. See column 1, lines 11-57 of Katayama, where a polysilicon film contains both hydrogen and a halogen (i.e., fluorine, chlorine, bromine, and iodine). In view of <u>Katayama</u>, it would have been obvious to one of ordinary skill in the art to incorporate a hydrogen and halogen into the semiconductor device of <u>Wakai</u> because it has a reduced influence of the grain boundaries (column 1, lines 36-38).

Double Patenting

- 8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).
- 9. A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).
- 10. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).
- 11. Claims 1-7 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,194,762. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 1 of U.S. Patent 6,192,762 does not explicitly teach a gate electrode adjacent to the channel forming region with a gate insulating layer interposed therebetween having an electrode connected to at least one of said pair of portions. However, these are well known and necessary features or components of MOS thin film transistors.

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12. Claims 8-11 are rejected under the judicially created doctrine of obviousness-type double

patenting as being unpatentable over claim 1 of U.S. Patent No. 6,194,762. Although the

conflicting claims are not identical, they are not patentably distinct from each other because

claims 1-5 of U.S. Patent 6,194,762 do not explicitly teach an active matrix circuit and a driver

circuit having a first and second thin film transistors. However, the use of first and second thin

film transistors in the driver circuit and the active matrix circuit are well known.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to W. David Coleman whose telephone number is 703-305-0004.

The examiner can normally be reached on 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-308-7722 for regular

communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

W. David Coleman

Examiner

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WDC

April 4, 2003